

Attorney Docket No. 09800240-0030

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:	)	Group Art Unit: 1746
	)	
Larry J. MARKOSKI	)	Examiner:
	)	
Application No. 10/609,017	)	
	)	
Filed: June 27, 2003	)	
	)	
For: Fuel Cells Comprising Laminar Flow	)	
Induced Dynamic Conducting Interfaces,	)	
Electronic Devices Comprising Such	)	
Cells, and Methods Employing Same	)	

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. section 1.97(b))**

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The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. section 1.97(b).

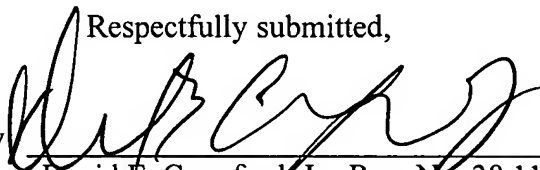
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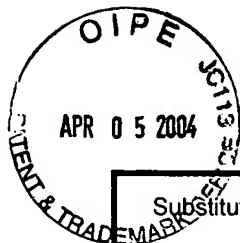
Transmittal of Information Disclosure Statement  
Page 2

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Copies of cite numbers 18, 19, 22 and 13 are enclosed. Copies of the remaining citations contained in this information disclosure statement were cited in parent application serial number 10/053,187, and copies may be found in the parent file.

Dated: 31 MAR 04

Respectfully submitted,  
  
By \_\_\_\_\_  
David E. Crawford, Jr., Reg. No. 38,118  
Customer No. 26263  
314.259.5810



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

2

**Complete if Known**

Application Number	10/609,017
Filing Date	June 27, 2003
First Named Inventor	Larry J. Markoski
Group Art Unit	1746
Examiner Name	
Attorney Docket Number	09800240-0030

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	2002/0041991	04-11-2002	Chan et al.	
	2	2002/0028372	03-07-2002	Ohlsen et al.	
	3	5,952,118	09-14-1999	Ledjeff et al.	
	4	5,863,671	01-26-1999	Spear, Jr. et al.	
	5	5,858,567	01-12-1999	Spear, Jr. et al.	
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	8	5,413,881	05-09-1995	Licht et al.	
	9	4,732,823	03-22-1988	Ito et al.	
	10	4,652,504	03-24-1987	Ando	
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	12	4,066,526	01-03-1978	Yeh	
	13	3,902,916	09-02-1975	Warszawski	
	14	3,849,275	11-19-1974	Candor	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	15	WO 01/37357	05-25-2001	Neah Power Systems, Inc.		<input type="checkbox"/>
	16	JP 10-211447 A	08-11-1998			<input type="checkbox"/>
	17	JP 4-284889	10-09-1992			<input type="checkbox"/>

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/609,017
				Filing Date	June 27, 2003
				First Named Inventor	Larry J. Markoski
				Group Art Unit	1746
Sheet	2	of	2	Examiner Name	
				Attorney Docket No.	09800240-0030

OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	18	BRANEBJERG et al., "Application of Miniature Analyzers from Microfluidic Components to uTAS," Proceedings of Micro Total Analysis Systems Conference, Netherlands, 1994, pp. 141-151.	
	19	BRODY et al., "Diffusion-Based Extraction in a Microfabricated Device," Sensors and Actuators, 1997, pp. 13-18, Vol. A58.	
	20	CARRETTE et al., "Fuel Cells-Fundamentals and Applications," Fuel Cells, 2001, pp. 5-39, Vol. 1	
	21	CHOBAN et al., "Microfluidic Fuel Cells That Lack a PEM," Proceedings of the Power Sources Conference (40 <sup>th</sup> ), 2002, pp. 317-320.	
	22	DUFFY et al., "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)," Anal. Chem., 1998, pp. 4974-4984, Vol. 70.	
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	24	HEINZEL et al., "A Review of the State-of-the-Art of the Methanol Crossover in Direct Methanol Fuel Cells," J. Power Sources, 1999, pp. 70-74, Vol. 84.	
	25	KENIS et al., "Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning," Science, 1999, pp. 83-85, Vol. 285.	
	26	KIM et al., "Diffusion-Based Sample Cleanup Microchip for Protein Analysis by Electrospray Ionization Mass Spectrometry," obtained at <a href="http://pittcon.omnibooksonline.com/2001/papers/0226.pdf">http://pittcon.omnibooksonline.com/2001/papers/0226.pdf</a> as of at least July 24, 2001, 2 pages.	
	27	MARKOSKI, "Summary of Knowledge About Laminar Flow Fuel Cells," 2002, 1 page.	
	28	PICKETT et al., "Ionic Mass Transfer in Parallel Plate Electrochemical Cells," J. Applied Electrochemistry, 1972, pp. 151-156, Vol. 2.	
	29	RO et al., "Sample Clean-Up Using Multiphase Laminar Microfluidics for Electrospray Ionization Mass Spectrometry," obtained at <a href="http://nanotech.osu.edu/abstracts/hahn.htm">http://nanotech.osu.edu/abstracts/hahn.htm</a> as of at least July 24, 2001, 2 pages.	
	30	THOMAS et al., "Los Alamos National Laboratory Monograph LA-UR-99-3231," Fuel Cells: Green Power, 1999, pp. 1-33.	
	31	WASZCZUK et al., "Methanol Electrooxidation on Platinum-Ruthenium Nanoparticle Catalysts," J. Catalysis, 2001, pp. 1-6, Vol. 203.	
	32	ZHAO et al., "Surface-Directed Liquid Flow Inside Microchannels," Science, 2001, pp. 1023-1026, Vol. 291.	

Examiner Signature		Date Considered	
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